IN THE CLAIMS:

Please amend the claims as follows:

Claim 1. (Currently Amended). A method for diagnosing ~~an inherited neuropathy~~ a CMT1A and HNPP, comprising:

running the PCR amplification using microsatellites present in the chromosome 17p11.2-p12 region as markers; and

DNA typing the resulting PCR amplification products to determine the presence of duplication and deletion in the corresponding chromosomal region,

wherein PCR amplification is carried out using ~~6 loci of~~ at least 3 markers selected from the group consisting of D17S921, D17S9B, D17S9A, D17S918, D17S2230 and D17S4A. ~~as markers, and DNA-typing of the resulting PCR amplification products is then carried out to determine duplication and deletion in the corresponding chromosomal region.~~

Claim 2. (Original). The method according to claim 1, wherein PCR is carried out to simultaneously amplify 6 markers, using a mixture of primers of SEQ. ID. NOS: 1 and 2; primers of SEQ. ID. NOS: 3 and 4; primers of SEQ. ID. NOS: 5 and 6; primers of SEQ. ID. NOS: 7 and 8; primers of SEQ. ID. NOS: 9 and 10; and primers of SEQ. ID. NOS: 11 and 12 in differential concentrations and a standard allele ladder.

Claim 3. (Original). The method according to claim 1, wherein the method includes:

(a) PCR amplification of 3 markers and DNA typing of the resulting PCR amplification products, using a mixture of primers of SEQ. ID. NOS: 3 and 4; primers of SEQ. ID. NOS: 5 and 6; and primers of SEQ. ID. NOS: 7 and 8 in differential concentrations and a standard allele ladder, thereby firstly determining duplication and deletion in the 17p11.2-p12 region; and

(b) PCR amplification of the remaining 3 markers and DNA typing of the resulting PCR amplification products, using a mixture of primers of SEQ. ID. NOS: 1 and 2; primers of SEQ. ID. NOS: 9 and 10; and primers of SEQ. ID. NOS: 11 and 12 in differential concentrations and a standard allele ladder, thereby secondly determining duplication and deletion in the 17p11.2-p12 region.

Claim 4. (Currently Amended). A kit for diagnosing ~~an inherited neuropathy~~ a CMT1A and HNPP by determination of duplication and deletion in the chromosome 17p11.2-p12 region, comprising:

a mixture of primers of SEQ. ID. NOS: 1 and 2; primers of SEQ. ID. NOS: 3 and 4; primers of SEQ. ID. NOS: 5 and 6; primers of SEQ. ID. NOS: 7 and 8; primers of SEQ. ID. NOS: 9 and 10; and primers of SEQ. ID. NOS: 11 and 12 in differential concentrations; and

a standard allele ladder.

Claim 5. (Currently Amended). A kit for diagnosing ~~an inherited neuropathy~~ a CMT1A and HNPP by determination of duplication and deletion in a chromosome 17p11.2-p12 region, comprising:

a first kit including a mixture of primers of SEQ. ID. NOS: 3 and 4; primers of SEQ. ID. NOS: 5 and 6; and primers of SEQ. ID. NOS: 7 and 8 in differential concentrations and a standard allele ladder; and

a second kit including a mixture of primers of SEQ. ID. NOS: 1 and 2; primers of SEQ. ID. NOS: 9 and 10; and primers of SEQ. ID. NOS: 11 and 12 in differential concentrations and a standard allele ladder.